

## Tris(fluoroalkoxy)methylphosphonium salts in the synthesis of methylphosphoranes

Mironov V., Mavleev R., Konovalova I., Ofitserov E., Pudovik A.  
*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

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### Abstract

The reactions of phosphites containing electron-withdrawing fluoroalkyl groups with methyl triflate gave tris(fluoroalkoxy)methylphosphonium triflates, which react with alcohols to give either tetrakis(fluoroalkoxy)methylphosphoranes (in the case of fluoroalcohols) or alkylation products - ethers and bis(fluoroalkoxy)methylphosphonates (in the case of unsubstituted alcohols). The structures of the phosphonium salts and phosphoranes were supported by  $^1\text{H}$  and  $^{31}\text{P}$  NMR spectroscopy. © 1991 Plenum Publishing Corporation.

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